[] Yes

[] No

COMBINED DECLARATION AND POWER OF ATTORNEY

COIVIE	DECLARATION A	ND TOWER OF ALL TOR	ave:
to my name, the information gibelow) or an or an original, firs	ven herein is true, that I believe I st and joint inventor (if plural nart on the invention entitled:CLOF	am the original, first and sole mes are listed below) of the sul	(if only one name is listed bject matter which is claimed
which is described in: [] the attached application or	[] PCT International Applicat [X] the specification in applicat (if applicable) and amended o	tion Serial No. 09/014,4 16	filedfiledfiled _January 27, 1998
amended by any amendment relational acknowledge the duty to disclar accordance with Title 37, Code I hereby claim foreign priority inventor's certificate or of any of America listed below and ha PCT international applications (see the content of	ved and understand the contents of ferred to above. ose all information known to me very of Federal Regulations, §1.56 (a) benefits under Title 35 United State PCT international application(s) designating at least one country ling date before that of the application of the application.	which is material to the examinal. Ites Code, § 119 of any foreign esignating at least one country of gn applications(s) for patent or other than the United States of	application(s) for patent or other than the United States inventor's certificate or any America filed by me on the
COUNTRY	APPLICATION	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC § 119
	·		[] Yes [] No
			[] Yes [] No

I hereby claim the benefit under Title 35, United States Code §120 of any United States application(s) or PCT International application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations. §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

Application Serial No.	Filing Date	Status: patented, pending, abandoned

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States Provisional patent application(s).

Provisional Application Serial No.	Filing Date	Status: patented, pending, abandoned
60/053,062	18 July 1997	Pending

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

James C. Haight, Reg. No. 25,588; Robert Benson, Reg. No. 33,612; Jack Spiegel, Reg. No. 34,477; Susan S. Rucker, Reg. No. 35,762; David R. Sadowski, Reg. No. 32,808; Steven M. Ferguson, Reg. No. 38,448; Stephen L. Finley, Reg. No. 36,357; and John P. Kim, Reg. No. 38,514 all of the Office of Technology Transfer, National Institutes of Health, Box 13, 6011 Executive Boulevard, Suite 325, Rockville, Maryland 20852.

I further direct that all correspondence concerning this application be directed to:

1,17

Patent Branch
Office of Technology Transfer
National Institutes of Health
Box 13
6011 Executive Boulevard, Suite 325
Rockville, MD 20852
Telephone: (301) 496-7056
Fax: (301) 402-0220

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of first joint inventor: Masayuki Yanagi

Inventor's signature: Masayuki Yanagi

Country of Citizenship: Japan

Residence: 257 Congressional Lane, #402, Rockville, Maryland 20852, U.S.A.

Post Office Address: 257 Congressional Lane, #402, Rockville, Maryland 20852, U.S.A.

Docket No. 2026-4276

Full Name of second joint inventor: <u>Jens Bukh</u>	
Inventor's signature: Jun Moulois Date: 3/19/98	
Country of Citizenship: Denmark	
Residence: 7 Center Drive, MSC 0740, Bethesda, Maryland 20892, U.S.A.	_
Post Office Address: 7 Center Drive, MSC 0740, Bethesda, Maryland 20892, U.S.A.	
Full Name of third joint inventor: Suzanne U. Emerson	
Inventor's signature:	
Country of Citizenship: United States of America	_
Residence: 18201 Woodcrest Drive, Rockville, Maryland 20852, U.S.A.	
Post Office Address: 18201 Woodcrest Drive, Rockville, Maryland 20852, U.S.A.	_
Full Name of fourth joint inventor: Robert H. Purcell	
Inventor's signature: Plant Ducel Date: 3/9/98	
Country of Citizenship: United States of America	
Residence: 17517 White Grounds Road, Boyds, Maryland 20841, U.S.A.	
Post Office Address: 17517 White Grounds Road, Boyds, Maryland 20841, U.S.A.	



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

MAY 29, 1998

1998 JUN -4 P 2: 25

MORGAN & FINNEGAN, L.L.P.
WILLIAM S. FEILER, ESQ. MORGAN & FINNEGAN LIP
345 PARK AVENUE
NEW YORK, NY 10154-0053

100676910A



K.W.BNE

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY. ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/23/1998

REEL/FRAME: 9069/0126

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

YANAGI, MASAYUKI

DOC DATE: 03/18/1998

ASSIGNOR: .

BUKH, JENS

DOC DATE: 03/18/1998

ASSIGNOR:

EMERSON, SUZANNE U.

DOC DATE: 03/18/1998

ASSIGNOR:

PURCELL, ROBERT H.

DOC DATE: 03/18/1998

ASSIGNEE:

HEALTH AND HUMAN SERVICES, DEPARTMENT OF 6011 EXECUTIVE BOULEVARD OFFICE OF TECHNOLOGY TRANSFER ROCKVILLE, MARYLAND 20852

SERIAL NUMBER: 09014416

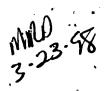
FILING DATE: 01/27/1998

PATENT NUMBER:

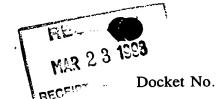
ISSUE DATE:

9069/0126 PAGE 2

SEDLEY PYNE, PARALEGAL ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS







PATENT Docket No. 2026-4276

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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AD	plica	ını(S)

M. Yanagi et al.

Group Art Unit:

To Be Assigned

Serial No.

09/014,416

Examiner:

To Be Assigned

Filed

January 27, 1998

For

CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES

AND USES THEREOF

RECORDATION FORM COVER SHEET PURSUANT TO 37 C.F.R. §§ 3.28 AND 3.31

Assistant Commissioner for Patents **BOX ASSIGNMENT** Washington, D.C. 20231

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Please record the attached original documents or copy thereof.

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Masayuki Yanagi, Jens Bukh, Suzanne U. Emerson and Robert H. Purcell

2.	Name	and	address	of	receiving	party/	parties

Execution Dates: March 18, 1998

Name: Department of Health and Human Services
Internal Address: Office of Technology Transfer
Street Address: 6011 Executive Boulevard
City Rockville State Maryland Country USA
ZIP <u>20852</u> \$
ZIP 20852 September 20852 Sept
Nature of Conveyance:
[X] Assignment [] Merger [] Security Agreement
[] Change of Name [] Other \frac{\frac{1}{2}}{2}

3.

4.	Applic	cation Number(s) or Patent N	lumber(s):
	[]	_	_	ner with a new application filed vas executed on
	[X]	Patent Application No.(s) _	09/014	4,416
5.	Addre	ss all future communications	to:	
		MORGAN & 345	FINNI Park A	ler, Esq. EGAN, L.L.P. venue k 10154-0053
6. 7.		number of applications and pfee (37 CFR 3.41 and 1.21(b		nvolved: 1
	\$40.00	per property x <u>1</u> proper	ty(ies)	= \$ 40.00
	[X]	A check in the amount of \$ enclosed.	40.00	to cover the recordation fee is
	[]	Charge fee to Deposit Acco	ount No	. 13-4500. Order
8.	[X]		cordatio	rized to charge any additional fees which n, or credit any overpayment to Deposit
9.		best of my knowledge and t and any attached copy is a		the foregoing information is true and py of the original document.
				Respectfully submitted,
				MORGAN & FINNEGAN, L.L.P.
Dated:	Maı	rch 20, 1998	Ву:	Richard W. Bork Registration No. 36,459
Mailin	g Addr	ess:		number of pages comprising this cover
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	ark Ave			
	rork, 18 758-480	lew York 10154-0053 00		
		19 Facsimile		

ASSIGNMENT

WHEREAS, we, Masayuki Yanagi, a citizen of Japan, residing at 257 Congressional Lane, #402, Rockville, Maryland 20852, U.S.A.; Jens Bukh, a citizen of Denmark, residing at 7 Center Drive, MSC 0740, Bethesda,, Maryland 20892, U.S.A; Suzanne U. Emerson, a citizen of the United States of America, residing at 18201 Woodcrest Drive, Rockville, Maryland 20852, U.S.A. and Robert H. Purcell, a citizen of the United States of America, residing at 17517 White Grounds, Road, Boyds, Maryland 20841, U.S.A. have invented CLONED GENOMES OF INFECTIOUS HEPATITIS C VIRUSES AND USES THEREOF for which Letters Patent of the United States of America has been filed on January 27, 1998, under Serial No. 09/014,416; and

WHEREAS, we are the applicants named in the above-identified application for Letters Patent; and

WHEREAS, the conditions under which said invention was made are such as to entitle The Government of the United States of America, as represented by the Secretary, Department of Health and Human Services (hereinafter THE GOVERNMENT) under Paragraph 1(a) of Executive Order 10096 to the entire right, title, and interest herein, both domestic and foreign; and

WHEREAS, THE GOVERNMENT is desirous of acquiring all domestic and foreign right, title, and interest in the above-mentioned invention described in the application for Letters Patent; and

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign and transfer to THE GOVERNMENT, as represented by the Secretary, Department of Health and Human Services, the full and exclusive rights in and to said invention in the United States of America and within each and every foreign country in which THE GOVERNMENT elects to file and the entire right, title, and interest in and to such applications, and any continuations, continuations-in-part, divisions, reissues or extensions thereof, and including priority rights as may be filed in the United States of America and foreign countries, and such Letters Patent as may be granted to be held by THE GOVERNMENT to the end of the term for which the same would have been held by the inventors had this assignment not been made.

We further agree to make, execute, and deliver to the Secretary, Department of Health and Human Services, upon request, any and all papers, documents, affidavits, or other instruments that may be necessary in the prosecution of any application or applications for improvements or reissues of Letters Patent, and to assist THE GOVERNMENT in every way as may be requested in protecting said invention, provided that any expense of extending such assistance shall be paid by THE GOVERNMENT.

Docket No. 2026-4276

M. Yomagi	Date3/18/98
Masayuki Yanagi	
County of Mortgome of State of Maryland SS:	~ ~ ~ ~ / ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Subscribed and sworn to before me this $\frac{18}{100}$	_ day of
· · · · · · · · · · · · · · · · · · ·	Los D. Seitter Hotary Public
Nous Buhh	Date 3/18/98
Yens Bukh	Date
County of Montganicy State of Malyland SS:	
Subscribed and sworn to before me this 18	day of March, 1998.
-	Jan W. Seitter

IN WITNESS WHEREOF we subscribe our hands and seals on the dates shown

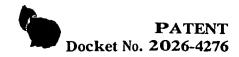
below:

Docket No. 2026-4276

below: County of Mississipple State of Mississipple Subscribed and sworn to before me this 18 day of March, 1998. Robert H. Purcell County of Montgari State of Mala Subscribed and sworn to before me this 18 day of Makele, 1998.

IN WITNESS WHEREOF we subscribe our hands and seals on the dates shown





IN THE UNITED STATES PATENT AND TRADEMA TRK OFFICE

Applicant(s):

Masayuki Yanagi, et al.

Serial No.

09/014,416

Group Art Unit: To be assigned

Filed

January 27, 1998

Exarminer: To be assigned

For

CLONED GENOMES OF INFECTIOUS

HEPATITIS C VIRUSES AND USES THEREOF

Assistant Commissioner for Patents Washington, D.C. 20231

ASSOCIATE POWER OF ATTORNEY

Dear Sir:

Pursuant to the provisions of 37 CFR 1.33 and 1.34 and MPEP 402.02, the undersigned attorney of record hereby appoints the following as associate attorneys to prosecute this application, to receive the patent, and to transact all business in the Patent and Trademark Office in connection with the above-identified application:

Kurt E. Richter (Reg. No. 24,052); Eugene Moroz (Reg. No. 25,237); William S. Feiler (Reg. No. 26,728); Israel Blum (Reg. No. 26,710); Bartholomew Verdirame (Reg. No. 28,483); Maria C. H. Lin (Reg. No. 29,323); Eugene C. Rzucidlo (Reg. No. 31,900); Mary J. Morry (Reg. No. 34,398); Kathryn M. Brown (Reg. No. 34,556); Leslie A. Serunian (Reg. No. 35,353); Dorothy R. Auth (Reg. No. 36,434); Richard W. Bork (Reg. No. 36,459); and David V. Rossi (Reg. No. 36,659) of Morgan & Finnegan, L.L.P. whose address is: 345 Park Avenue, New York, New York 10154.

Respectfully submitted,

Date Bui Morch 1898

Susan S. Rucker

Registration No. 35,762

Patent Branch

Office of Technology Transfer National Institutes of Health

Box 13

6011 Executive Boulevard, Suite 325

Rockville, MD 20852

Tel. No. (301) 49 6-7056